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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/003,349	12/06/2001	Harumi Anne Kuno	10018402-1	5233

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 HEWLETT-PACKARD COMPANY
 Intellectual Property Administration
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EXAMINER

CHEA, PHILIP J

ART UNIT	PAPER NUMBER
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2153

DATE MAILED: 03/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/003,349

Applicant(s)

KUNO ET AL.

Examiner

Philip J Chea

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 December 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 December 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>12/6/01</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claims 1-18 have been examined.

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 12/6/01 was filed after the mailing date on 12/6/01. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Ankireddipally et al. (US 6,772,216).

As per claim 1, Ankireddipally et al. disclose a web service system allowing two or more web services to autonomously communicate in a conversation via documents, where the documents used by the two or more web services may require transformation, said system, as claimed, comprising:

- a plurality of conversation definition language (CDL) description files, wherein each of the respective CDL description files defines document types, transitions and interactions of a conversation (see column 17, lines 32-50, where CDL files are considered document type declaration files (DTD) which are being described).
- a conversation controller controlling conversation for at least one web service and having access to the plurality of CDL description files, the conversation controller handling a

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plurality of inbound and outbound documents, and utilizing a plurality of CDL description files to determine document types for each of the inbound and outbound documents (see column 15, lines 12-38, and column 16, lines 21-48), and to determine transitions and interactions of a conversation, wherein the conversation controller is capable of utilizing a transformation CDL (TCDL) description file, the TCDL being a CDL extended with transformational elements (see column 17, lines 50-61, TCDL files are tagged XML documents).

As per claim 2, Ankireddipally et al. further disclose that the user of a TCDL file results in automatic transformation of a document valid for a first web service into a transformed document valid for a second web service (see column 20, lines 42-67 and column 21, lines 1-13).

As per claim 3, Ankireddipally et al. further disclose that a TCDL file is generated by an associated web service (see column 18, lines 10-23).

As per claim 4, Ankireddipally et al. further disclose a plurality of transformation conversation definition language (TCDL) description files accessible by the conversation controller, wherein each TCDL file defines document types, transitions, interactions and at least one document transformation of a conversation (see columns 20 and 21, lines 42-67 and 1-13).

As per claim 5, Ankireddipally et al. further disclose that each CDL file includes transformational elements (see column 16, lines 21-48).

As per claim 6, Ankireddipally et al. further disclose an additional conversation controller, wherein each conversation controller is used by a corresponding web service (see column 15, lines 12-38, where each service application contains a conversation controller).

As per claim 7, Ankireddipally et al. further disclose a registry holding information corresponding to a plurality of CDL and TCDL files and associated web services, the information being retrievable by a conversation controller to determine an appropriate CDL/TCDL file to use for a given web service (see columns 12 and 13, lines 49-67 and 1-9).

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As per claims 8 and 12, Ankireddipally et al. disclose a system containing a data structure for defining transformations in a web service conversation between two or more web services, where the data structure is to be parsed by a conversation controller computer program, said data structure comprising:

- a first section defining document types for a plurality of inbound and outbound documents used in a conversation (see column 15, lines 59-66, and Fig. 4, where type indicates type of documents);
- a second section defining interactions of a conversation (see column 16, lines 21-31);
- a third section defining a flow of conversation (see column 16, lines 21-31); and
- a fourth section identifying document transformations in a conversation, wherein a document transformation is necessary to transform a document used by a first web service into a document used by a second web service (see column 17, lines 32-61).

As per claims 9 and 13, Ankireddipally et al. further disclose that the section of the data structure identifying document transformations is a subsection of the section defining interactions (see Fig. 5).

As per claims 10 and 14, Ankireddipally et al. further disclose the section of the data structure identifying document transformation identifies a corresponding stylesheet document comprising elements defining attributes, fields and computations related to a required transformation (see column 9, lines 27-54).

As per claims 11 and 16, Ankireddipally et al. further disclose that the identified stylesheet is a virtual single document comprised of a plurality of linked documents (see columns 12 and 13, lines 49-67 and 1-9).

As per claim 17, Ankireddipally et al. further disclose that the plurality of linked documents are stored in at least one additional memory accessible by the conversation controller (see columns 12 and 13, lines 49-67 and 1-9).

As per claim 18, Ankireddipally et al. further disclose a method for automatically transforming documents in a conversation between two or more web services, said method comprising steps of:

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- retrieving at least one transformational conversation description language (TCDL) description file for use by a conversation controller (see column 17, lines 32-61);
- determining, by the conversation controller, whether a document needed in a transition from a first state in the conversation to a second state in the conversation requires a transformation (see column 17, lines 32-61); and
- automatically transforming the document needed in the transition, by the conversation controller, if the retrieved TCDL description file has a transformational element for the needed document transformation (see column 18, lines 10-23).

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Madduri; Hari Haranath	US 5764982 A
Christensen, Mitchell T. et al.	US 20020169842 A1
Chen; Shyh-Kwei et al.	US 6507856 B1

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip J Chea whose telephone number is 571-272-3951. The examiner can normally be reached on M-F 7:00-4:30 (1st Friday Off).


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Burgess can be reached on 571-272-3949. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Philip J Chea
Examiner
Art Unit 2153

PJC 2/23/05



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